

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	5	(charge adj coupl\$6) with gate with (hole or aperture or open\$6 or via or trench or via) with (dop\$6 or implant\$6) with etch\$6	US-PGPUB; USPAT	OR	ON	2006/05/26 14:34
S2	5	((charge adj coupl\$6) or (charge-coupl\$6)) with gate with (hole or aperture or open\$6 or via or trench or via) with (dop\$6 or implant\$6) with etch\$6	US-PGPUB; USPAT	OR	ON	2007/01/10 15:41
S3	415	(438/144).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 07:16
S4	3	"438"/\$.ccls. and (((charge adj coupl\$6) or (charge-coupl\$6)) with gate with (hole or aperture or open\$6 or via or trench or via) with (dop\$6 or implant\$6) with etch\$6)	US-PGPUB; USPAT	OR	ON	2006/05/31 13:52
S6	5	"257"/\$.ccls. and (((charge adj coupl\$6) or (charge-coupl\$6)) with gate with (hole or aperture or open\$6 or via or trench or via) with (dop\$6 or implant\$6) with etch\$6)	US-PGPUB; USPAT	OR	ON	2006/05/26 14:37
S7	734	(438/48).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 07:12
S8	47	(438/79).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 07:15
S9	53	(438/145).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 07:13

## EAST Search History

S10	57	(438/146).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 07:13
S11	26	(438/147).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 07:13
S12	38	(438/148).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 07:14
S13	112	(257/214).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 07:14
S15	140	(257/216).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 07:15
S16	100	(257/217).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 07:15
S17	174	(438/75).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 07:15
S18	42	(438/76).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 07:15

## EAST Search History

S19	1151	438/144,48,79,145,146,147,148,75,76.ccls. and @ad<="20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 07:18
S20	647	257/214,215,216,217.ccls. and @ad<="20021023"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 07:18
S21	340	438/144,48,79,145,146,147,148,75,76.ccls. and @ad<="20021023" and ((charge adj coupl\$6) or (charge-coupl\$6))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/23 07:18
S22	315	257/214,215,216,217.ccls. and @ad<="20021023" and ((charge adj coupl\$6) or (charge-coupl\$6))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/20 14:00
S23	2	((("4742016") or ("5114833"))).PN.	USPAT	OR	OFF	2005/10/20 10:28
S24	11	((("3728590") or ("3853634") or ("5298448") or ("4063992") or ("4613402") or ("5302544") or ("5314836") or ("5556801") or ("5606187") or ("5719075") or ("5760431"))).PN.	USPAT	OR	OFF	2005/10/20 10:29
S25	3	"438"/\$.ccls. and (((charge adj coupl\$6) or (charge-coupl\$6)) with gate with (hole or aperture or open\$6 or via or trench or via) with (dop\$6 or implant\$6) with etch\$6)	US-PGPUB; USPAT	OR	ON	2005/10/20 10:47
S26	5	"257"/\$.ccls. and (((charge adj coupl\$6) or (charge-coupl\$6)) with gate with (hole or aperture or open\$6 or via or trench or via) with (dop\$6 or implant\$6) with etch\$6)	US-PGPUB; USPAT	OR	ON	2005/10/20 10:48
S27	0	semicondutor and (((charge adj coupl\$6) or (charge-coupl\$6)) with gate with (hole or aperture or open\$6 or via or trench or via) with (dop\$6 or implant\$6) with etch\$6)	US-PGPUB; USPAT	OR	ON	2005/10/20 10:46

## EAST Search History

S28	5	semiconductor and (((charge adj coupl\$6) or (charge-coupl\$6)) with gate with (hole or aperture or open\$6 or via or trench or via) with (dop\$6 or implant\$6) with etch\$6)	US-PGPUB; USPAT	OR	ON	2005/10/20 10:47
S29	2	257/214,215,216,217.ccls. and @ad<="20021023" and (((charge adj coupl\$6) or (charge-coupl\$6)) with gate with (hole or aperture or open\$6 or via or trench or via) with (dop\$6 or implant\$6) with etch\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/20 14:00
S30	5	((charge adj coupl\$6) or (charge-coupl\$6)) with gate with (hole or aperture or open or opening or via or trench or via) with (dop\$6 or implant\$6) with etch\$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/26 14:35
S31	5	(charge adj coupl\$6) with gate with (hole or aperture or opening or open or via or trench or via) with (dop\$6 or implant\$6) with etch\$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/26 14:36
S32	5	semiconductor and (((charge adj coupl\$6) or (charge-coupl\$6)) with gate with (hole or aperture or open or opening or via or trench or via) with (dop\$6 or implant\$6) with etch\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/26 14:40
S33	3	"438"/\$.ccls. and (((charge adj coupl\$6) or (charge-coupl\$6)) with gate with (hole or aperture or opening or opne or via or trench or via) with (dop\$6 or implant\$6) with etch\$6)	US-PGPUB; USPAT	OR	ON	2006/05/26 14:37
S34	3	"438"/\$.ccls. and (((charge adj coupl\$6) or (charge-coupl\$6)) with gate with (hole or aperture or opening or open or via or trench or via) with (dop\$6 or implant\$6) with etch\$6)	US-PGPUB; USPAT	OR	ON	2006/05/26 14:40
S35	5	"257"/\$.ccls. and (((charge adj coupl\$6) or (charge-coupl\$6)) with gate with (hole or aperture or opening or open or via or trench or via) with (dop\$6 or implant\$6) with etch\$6)	US-PGPUB; USPAT	OR	ON	2006/05/26 14:37

## EAST Search History

S36	0	(semiconductor and (((charge adj coupl\$6) or (charge-coupl\$6)) with gate with (hole or aperture or open or opening or via or trench or via) with (dop\$6 or implant\$6) with etch\$6)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/26 14:41
S37	0	(semiconductor and (((charge adj coupl\$6) or (charge-coupl\$6)) with gate with (hole or aperture or open or opening or via or trench or via) with (dop\$6 or implant\$6) with etch\$6)).clm.	US-PGPUB	OR	ON	2006/05/26 14:41
S38	5	(((charge adj coupl\$6) or (charge-coupl\$6)) or (charge adj transfer adj channel) or ((charge adj tranfer adj device) or ("CCD")))) with gate with (hole or aperture or open\$6 or via or trench or via) with (dop\$6 or implant\$6) with etch\$6	US-PGPUB; USPAT	OR	ON	2006/11/20 14:43
S39	343	(((charge adj coupl\$6) or (charge-coupl\$6)) or (charge adj transfer adj channel) or ((charge adj tranfer adj device) or ("CCD")))) and gate and (hole or aperture or open\$6 or via or trench or via) and (dop\$6 or implant\$6) and etch\$6 and (second adj (mask\$4 or photoresist or photo or resist))	US-PGPUB; USPAT	OR	ON	2006/11/20 14:51
S40	0	(((charge adj coupl\$6) or (charge-coupl\$6)) or (charge adj transfer adj channel) or ((charge adj tranfer adj device) or ("CCD")))) with gate with (hole or aperture or open\$6 or via or trench or via) with (dop\$6 or implant\$6) with etch\$6 with (second adj (mask\$4 or photoresist or photo or resist))	US-PGPUB; USPAT	OR	ON	2006/11/20 14:29
S41	0	(((charge adj coupl\$6) or (charge-coupl\$6)) or (charge adj transfer adj channel) or ((charge adj tranfer adj device) or ("CCD")))) and gate and (hole or aperture or open\$6 or via or trench or via) and (dop\$6 or implant\$6) and etch\$6 with (second adj (mask\$4 or photoresist or photo or resist))	US-PGPUB; USPAT	OR	ON	2006/11/20 14:30

## EAST Search History

S42	5	(((((charge adj coupl\$6) or (charge-coupl\$6)) or (charge adj transfer adj channel) or ((charge adj tranfer adj device) or ("CCD")))) and gate and (hole or aperture or open\$6 or via or trench or via) and (dop\$6 or implant\$6) and etch\$6) same (second adj (mask\$4 or photoresist or photo or resist))	US-PGPUB; USPAT	OR	ON	2006/11/20 14:31
S43	11	((("3,728,590") or ("3,853,634") or ("5,298,448") or ("4,063,992") or ("4,613,402") or ("5,302,544") or ("5,314,836") or ("5,556,801") or ("5,606,187") or ("5,719,075") or ("5,760,431")).PN.	USPAT	OR	OFF	2006/11/21 08:04
S44	0	10/691080	US-PGPUB; USPAT	OR	ON	2006/11/20 14:43
S45	0	(((((charge adj coupl\$6) or (charge-coupl\$6)) or (charge adj transfer adj channel) or ((charge adj tranfer adj device) or ("CCD")))) and gate and (hole or aperture or open\$6 or via or trench or via) and (dop\$6 or implant\$6) and etch\$6 and (second adj (mask\$4 or photoresist or photo or resist))). clm.	US-PGPUB; USPAT	OR	ON	2006/11/20 14:50
S46	0	(((((charge adj coupl\$6) or (charge-coupl\$6)) or (charge adj transfer adj channel) or ((charge adj tranfer adj device) or ("CCD")))) and gate and (hole or aperture or open\$6 or via or trench or via) and (dop\$6 or implant\$6) and etch\$6 and (second adj (mask\$4 or photoresist or photo or resist))). clm.	US-PGPUB	OR	ON	2006/11/20 14:50
S47	191	(((((charge adj coupl\$6) or (charge-coupl\$6)) or (charge adj transfer adj channel) or ((charge adj tranfer adj device) or ("CCD")))) and gate and (hole or aperture or open\$6 or via or trench or via) and (dop\$6 or implant\$6) and etch\$6 and (second adj (mask\$4 or photoresist or photo or resist)) and @ad<="20021023"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/20 14:52

## EAST Search History

S48	0	((charge adj coupl\$6) or (charge-coupl\$6)) or (charge adj transfer adj channel) or ((charge adj tranfer adj device) or ("CCD"))) and gate and (hole or aperture or open\$6 or via or trench or via) and (dop\$6 or implant\$6) and etch\$6 and (second adj (mask\$4 or photoresist or photo or resist)) and @ad<="2002"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/20 14:51
S49	402	(257/215).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/21 09:49
S50	5	((charge adj coupl\$6) or (charge-coupl\$6)) or ("CDC") with gate with (hole or aperture or open\$6 or via or trench or via) with (dop\$6 or implant\$6) with etch\$6	US-PGPUB; USPAT	OR	ON	2007/01/10 15:42
S51	2236	((charge adj coupl\$6) or (charge-coupl\$6)) or ("CDC") and gate and (hole or aperture or open\$6 or via or trench or via) and (dop\$6 or implant\$6) and etch\$6	US-PGPUB; USPAT	OR	ON	2007/01/10 15:43
S52	215	((charge adj coupl\$6) or (charge-coupl\$6)) or ("CDC") and (hole or aperture or open\$6 or via or trench or via) and ((gate or electrode) near (dop\$6 or implant\$6)) and etch\$6	US-PGPUB; USPAT	OR	ON	2007/01/10 15:44
S53	1928	((charge adj coupl\$6) or (charge-coupl\$6)) or ("CDC") and (hole or aperture or open\$6 or via or trench or via) and ((gate or electrode) same (dop\$6 or implant\$6)) and etch\$6	US-PGPUB; USPAT	OR	ON	2007/01/10 15:44
S54	1383	((charge adj coupl\$6) or (charge-coupl\$6)) or ("CDC") and (hole or aperture or open\$6 or via or trench or via) and ((gate or electrode) with (dop\$6 or implant\$6)) and etch\$6	US-PGPUB; USPAT	OR	ON	2007/01/10 15:44
S55	845	((charge adj coupl\$6) or (charge-coupl\$6)) or ("CDC") and (hole or aperture or open\$6 or via or trench or via) and ((gate or electrode) with (dop\$6 or implant\$6)) and etch\$6 and @ad<="20021023"	US-PGPUB; USPAT	OR	ON	2007/01/10 15:45

## EAST Search History

S56	1176	(((charge adj coupl\$6) or (charge-coupl\$6)) or ("CDC")) and (hole or aperture or open\$6 or via or trench or via) and ((gate or electrode) same (dop\$6 or implant\$6)) and etch\$6 and @ad<="20021023"	US-PGPUB; USPAT	OR	ON	2007/01/10 15:45
S57	1727	(((charge adj coupl\$6) or (charge-coupl\$6)) or ("CDC")) and (hole or aperture or open\$6 or via or trench or via) and ((gate or electrode) and (dop\$6 or implant\$6)) and etch\$6 and @ad<="20021023"	US-PGPUB; USPAT	OR	ON	2007/01/10 15:45
S58	138	(((charge adj coupl\$6) or (charge-coupl\$6)) or ("CDC")) and (hole or aperture or open\$6 or via or trench or via) and ((gate or electrode) near (dop\$6 or implant\$6)) and etch\$6 and @ad<="20021023"	US-PGPUB; USPAT	OR	ON	2007/01/10 15:45
S59	86	(((charge adj coupl\$6) or (charge-coupl\$6)) or ("CDC")) and (hole or aperture or open\$6 or via or trench or via) and ((gate or electrode) adj (dop\$6 or implant\$6)) and etch\$6 and @ad<="20021023"	US-PGPUB; USPAT	OR	ON	2007/01/11 09:04
S60	101	(((charge adj coupl\$6) or (charge-coupl\$6)) or ("CCD")) and (hole or aperture or open\$6 or via or trench or via) and ((gate or electrode) adj (dop\$6 or implant\$6)) and etch\$6 and @ad<="20021023"	US-PGPUB; USPAT	OR	ON	2007/01/11 09:05
S61	102	(((charge adj coupl\$6) or (charge-coupl\$6)) or ("CCD")) and (hole or aperture or open\$6 or via or trench or via) and ((gate or electrode) adj (dop\$6 or implant\$6)) and etch\$6 and @ad<="20021023"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 11:48
S62	11	(((charge adj coupl\$6) or (charge-coupl\$6)) or ("CCD")) and (hole or aperture or open\$6 or via or trench or via) and ((gate or electrode) adj (dop\$6 or implant\$6)) and etch\$6 and @ad<="20021023" and (transfer adj channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 11:49



## EAST Search History

S63	124	(((charge adj coupl\$6) or (charge-coupl\$6)) or ("CCD")) and (hole or aperture or open\$6 or via or trench or via) and ((gate or electrode) and (dop\$6 or implant\$6)) and etch\$6 and @ad<="20021023" and (transfer adj channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/11 11:49
S64	84	(((charge adj coupl\$6) or (charge-coupl\$6)) or ("CCD")) and (hole or aperture or open\$6 or via or trench or via) and ((gate or electrode) and (dop\$6 or implant\$6)) and etch\$6 and @ad<="20021023" and (transfer adj channel) and mask\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/12 10:41
S66	37	("3936858"   "4498227"   "5194395"   "5244819"   "5272104"   "5443661"   "5453153"   "5501993"   "5646053"   "5753560"   "5773152"   "5786231"   "5795809"   "5807771"   "5818085"   "5882990"   "5899732"   "5926727"   "5929508"   "5965917"   "5976956"   "6001711"   "6010950"   "6013584"   "6022793"   "6024888"   "6083324"   "6093624"   "6100202"   "6114223"   "6133123"   "6255195"   "6284629"   "6444534"   "6534380"   "6548382"   "6569749").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/11 12:51
S67	9	((("3936858"   "4498227"   "5194395"   "5244819"   "5272104"   "5443661"   "5453153"   "5501993"   "5646053"   "5753560"   "5773152"   "5786231"   "5795809"   "5807771"   "5818085"   "5882990"   "5899732"   "5926727"   "5929508"   "5965917"   "5976956"   "6001711"   "6010950"   "6013584"   "6022793"   "6024888"   "6083324"   "6093624"   "6100202"   "6114223"   "6133123"   "6255195"   "6284629"   "6444534"   "6534380"   "6548382"   "6569749").PN.) and bond\$3 and (germanium or ("Ge"))	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/11 14:07

## EAST Search History

S68	2	("5013681").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/11 14:35
S69	6	((("5013681") or ("6221738") or ("5344524"))).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/11 14:35